



CITRUS DECEMBER FORECAST MATURITY TEST RESULTS AND FRUIT SIZE

Cooperating with the Florida Department of Agriculture & Consumer Services
2290 Lucien Way, Suite 300, Maitland, FL 32751
(407) 648-6013 · (407) 648-6029 FAX · www.nass.usda.gov/fl

December 10, 2013

Florida All Orange Production Down 3 Percent
Florida Non-Valencia Orange Production Down 3 Percent
Florida Valencia Orange Production Down 3 Percent
Florida All Grapefruit Production Down 6 Percent
Florida All Tangerine Production Down 4 Percent
Florida Tangelo Production Unchanged
FCOJ Yield Up at 1.61 Gallons per Box (42° Brix)

FORECAST DATES	–	2013-2014 SEASON
January 10, 2014		April 9, 2014
February 10, 2014		May 9, 2014
March 10, 2014		June 11, 2014
		Julv 11, 2014

Citrus Production by Type and State – United States

Crop and State	Production ¹			2013-2014 Forecasted Production ¹	
	2010-2011 (1,000 boxes)	2011-2012 (1,000 boxes)	2012-2013 (1,000 boxes)	November (1,000 boxes)	December (1,000 boxes)
Non-Valencia Oranges ²					
Florida.....	70,300	74,200	67,100	58,000	56,000
California ³	48,000	45,500	44,000	44,000	44,000
Texas ³	1,700	1,108	1,499	1,400	1,400
United States.....	120,000	120,808	112,599	103,400	101,400
Valencia Oranges					
Florida.....	70,200	72,500	66,500	67,000	65,000
California ³	14,500	12,500	12,500	12,500	12,500
Texas ³	249	311	289	364	364
United States.....	84,949	85,311	79,289	79,864	77,864
All Oranges					
Florida.....	140,500	146,700	133,600	125,000	121,000
California ³	62,500	58,500	56,500	56,500	56,500
Texas ³	1,949	1,419	1,788	1,764	1,764
United States.....	204,949	206,119	191,888	183,264	179,264
Grapefruit					
Florida-All.....	19,750	18,850	18,350	17,800	16,700
White.....	5,850	5,350	5,250	4,800	4,700
Colored.....	13,900	13,500	13,100	13,000	12,000
California ³	4,310	4,000	4,000	4,000	4,000
Texas ³	6,300	4,800	6,100	5,190	5,190
United States.....	30,360	27,650	28,450	26,990	25,890
Lemons ³					
California.....	20,500	20,500	21,000	21,500	21,500
Arizona.....	2,500	750	1,800	1,785	1,785
United States.....	23,000	21,250	22,800	23,285	23,285
Tangelos					
Florida.....	1,150	1,150	1,000	1,000	1,000
Tangerines					
Florida-All.....	4,650	4,290	3,280	3,750	3,600
Early ⁴	2,600	2,330	1,910	2,050	2,000
Honey.....	2,050	1,960	1,370	1,700	1,600
California ^{3,5}	10,600	10,800	13,000	13,500	13,500
Arizona ^{3,5}	300	200	200	200	200
United States.....	15,500	15,290	16,480	17,450	17,300

¹ Net pounds per box: oranges in California-80, Florida-90, Texas-85; grapefruit in California-80, Florida-85, Texas-80; lemons-80, tangelos-90; tangerines and mandarins in Arizona and California-80, Florida-95.

² Navel and miscellaneous varieties in California. Early (including Navel) and midseason varieties in Florida and Texas. Includes small quantities of tangerines in Texas and Temples in Florida.

³ Estimates carried forward from November.

⁴ Fallglo and Sunburst varieties.

⁵ Includes tangelos and tangors.

All Oranges 121.0 Million Boxes

The 2013-2014 Florida all orange forecast released today by the USDA Agricultural Statistics Board is 121.0 million boxes, down 4.0 million boxes or 3 percent from November and 9 percent fewer than last season's production. The forecast consists of 56.0 million boxes of the non-Valencia oranges (early, midseason, Navel, and Temple varieties) and 65.0 million boxes of the Valencia oranges. The hurricane seasons of 2004-2005 and 2005-2006 have been excluded from the usual 10-year regression analysis and from comparisons of the current season to previous seasons. For those previous 8 seasons, the December forecast has deviated from final production by an average of 4 percent with 7 seasons above and 1 below, with differences ranging from 1 percent below to 9 percent above. All references to "average", "minimum", and "maximum" refer to the previous 8 non-hurricane seasons unless noted.

Non-Valencia Oranges 56.0 Million Boxes

The forecast of non-Valencia production is lowered to 56.0 million boxes. Current size is below the minimum and projected to remain below the minimum at harvest. Current droppage, above the maximum and steadily increasing, is projected to be highest in the series dating back to 1960-1961. The Navel forecast, included in the non-Valencia forecast, is unchanged at 2.1 million boxes. If realized, this utilization will be the lowest since 1984-1985. Final Navel size is just below the minimum and final droppage is above average.

Valencia Oranges 65.0 Million Boxes

The forecast of Valencia production is lowered by 2.0 million boxes to 65.0 million boxes. Current fruit size is below the minimum and is projected to remain below the minimum at harvest. Current droppage is above average and projected to remain above average.

All Grapefruit 16.7 Million Boxes

The forecast of all grapefruit production is reduced by 1.1 million boxes to 16.7 million boxes. The white grapefruit forecast is reduced 100,000 boxes to 4.7 million boxes. The colored grapefruit forecast is reduced 1.0 million boxes to 12.0 million boxes. White grapefruit current fruit size is below the minimum and droppage is above average. Current fruit size of colored grapefruit is also below the minimum while droppage is above the maximum.

All Tangerines 3.6 Million Boxes

The forecast of all tangerine production is reduced by 150,000 boxes to 3.6 million boxes. The early tangerine forecast (Fallglo and Sunburst) is now 2.0 million boxes, consisting of 500,000 boxes of Fallglo tangerines and 1.5 million boxes of Sunburst tangerines. The forecast of the later maturing Honey variety is reduced 100,000 boxes to 1.6 million boxes. Harvest of Fallglo tangerines is complete for the season and harvest of Sunburst tangerines is well underway. Projected Honey fruit size is near the minimum, while the projected droppage rate is about average.

Tangelos 1.0 Million Boxes

The forecast of tangelo production is unchanged at 1.0 million boxes. Tangelo final fruit size for the season is below the minimum and droppage is above average at 10 percent. Approximately 321 pieces of fruit are required to fill a 1 3/5 bushel box.

FCOJ Yield 1.61 Gallons per Box

The projection for frozen concentrated orange juice (FCOJ) is raised to 1.61 gallons per box of 42° Brix concentrate. Last season's final yield for all oranges was 1.587680 gallons per box, as reported by the Florida Department of Citrus. Yield projections for the early-midseason and late components will be published in January. All projections of yield assume the processing relationships this season will be similar to those of the past several seasons.

Maturity

Regular bloom fruit samples were collected on November 26-27, 2013 from groves on established routes in Florida's five major citrus producing areas and tested December 2-4, 2013. All comparisons are made to December 1, 2012. Acid levels are higher for all fruit types except midseason and late oranges. Solids (Brix) levels are lower for early and late oranges but higher for midseason oranges and both white and colored grapefruit. Ratios are higher only on midseason oranges and colored grapefruit. Unfinished juice per box and solids per box are higher only on midseason and late oranges.

All Indian River comparisons are made to fruit from the other areas for this test period. Indian River grapefruit has higher acid and Brix levels resulting in higher ratios. Unfinished juice per box is lower for white grapefruit and higher for colored grapefruit. Solids per box is higher for grapefruit types in the Indian River District.

Forecast Components, by Variety — Florida: December 2013

[Survey data is considered final in December for Navels, January for early-midseason oranges, February for grapefruit, and April for Valencias]

Type	Bearing trees (1,000 trees)	Fruit per tree (number)	Droppage (percent)	Fruit per box (number)
ORANGES				
Early-midseason.....	23,660	918	21	287
Navel.....	985	429	19	144
Valencia.....	32,149	614	19	243
GRAPEFRUIT				
White.....	1,282	555	19	124
Colored.....	3,617	500	23	131

Citrus Unadjusted Maturity Tests — Florida: 2012-2013 and 2013-2014

[Averages of regular bloom fruit from sample groves. Juice and solids per box are unadjusted and not comparable to juice processing plant test results. All samples were run through an FMC 091 machine using mechanical pressure only. This machine utilizes a .040 short strainer and standard 5/8 inch orifice tube. The beam settings are also identical to past tests and no restrictors are used]

Fruit type (number of groves) test date	Acid		Solids (Brix)		Ratio		Unfinished juice per box		Solids per box	
	2012-2013	2013-2014	2012-2013	2013-2014	2012-2013	2013-2014	2012-2013	2013-2014	2012-2013	2013-2014
	(percent)	(percent)	(percent)	(percent)			(pounds)	(pounds)	(pounds)	(pounds)
ORANGES										
Early (113-117)										
Sep 1.....	1.24	1.47	9.37	9.24	7.66	6.40	46.47	42.37	4.35	3.91
Oct 1.....	0.98	1.07	9.51	9.47	9.87	9.02	47.54	47.38	4.52	4.48
Nov 1.....	0.77	0.89	10.24	10.04	13.60	11.52	51.42	44.57	5.26	4.47
Dec 1.....	0.73	0.75	10.78	10.72	14.99	14.58	51.54	51.23	5.56	5.50
Midseason (55-54)										
Sep 1.....	1.41	1.68	9.35	9.26	6.77	5.60	45.84	43.28	4.28	4.01
Oct 1.....	1.19	1.30	9.57	9.57	8.24	7.59	48.79	48.29	4.67	4.62
Nov 1.....	0.92	1.10	10.46	10.29	11.69	9.59	52.07	45.68	5.45	4.71
Dec 1.....	0.94	0.93	11.29	11.45	12.31	12.51	51.93	52.63	5.86	6.03
Late (150-148)										
Sep 1.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Oct 1.....	2.16	2.18	8.81	8.66	4.17	4.01	45.00	46.33	3.97	4.01
Nov 1.....	1.69	1.84	9.29	9.26	5.60	5.10	51.32	50.85	4.77	4.71
Dec 1.....	1.51	1.51	10.10	10.06	6.84	6.77	53.56	54.28	5.41	5.46
GRAPEFRUIT										
White Seedless (47-49)										
Sep 1.....	1.53	1.78	9.92	10.08	6.50	5.70	35.02	31.46	3.47	3.17
Oct 1.....	1.44	1.55	9.83	9.87	6.83	6.39	36.32	35.65	3.57	3.51
Nov 1.....	1.33	1.54	9.89	10.21	7.48	6.68	42.68	39.49	4.22	4.03
Dec 1.....	1.37	1.45	10.02	10.53	7.36	7.33	45.37	41.17	4.55	4.33
Colored Seedless (48-47)										
Sep 1.....	1.52	1.70	10.16	9.99	6.71	5.91	35.32	33.07	3.59	3.30
Oct 1.....	1.41	1.48	10.04	9.83	7.13	6.70	37.55	36.56	3.77	3.59
Nov 1.....	1.34	1.43	10.00	10.15	7.50	7.14	41.91	40.59	4.18	4.12
Dec 1.....	1.33	1.36	10.25	10.74	7.75	7.96	46.70	43.03	4.79	4.62

(NA) Not available.

Citrus Maturity Test Averages, by Areas — Florida: December 1, 2012-2013 and 2013-2014

Fruit type (number of groves)	Acid		Solids (Brix)		Ratio		Unfinished juice per box		Solids per box	
	2012-2013	2013-2014	2012-2013	2013-2014	2012-2013	2013-2014	2012-2013	2013-2014	2012-2013	2013-2014
	(percent)	(percent)	(percent)	(percent)			(pounds)	(pounds)	(pounds)	(pounds)
ORANGES										
Early										
Indian River (7-8).....	0.80	0.74	10.59	10.88	13.96	15.09	53.78	48.64	5.70	5.29
Other Areas (106-109).....	0.73	0.75	10.79	10.71	15.06	14.54	51.39	51.42	5.55	5.51
Midseason										
Indian River (11-11).....	1.01	1.02	11.69	11.73	11.65	11.58	52.56	50.97	6.14	5.98
Other Areas (44-43).....	0.92	0.91	11.19	11.38	12.48	12.75	51.78	53.06	5.79	6.04
Late										
Indian River (27-29).....	1.60	1.49	10.29	10.30	6.51	7.01	52.91	53.27	5.44	5.48
Other Areas (123-119).....	1.49	1.51	10.06	10.01	6.90	6.71	53.71	54.52	5.40	5.45
GRAPEFRUIT										
White Seedless										
Indian River (38-38).....	1.40	1.47	10.14	10.72	7.28	7.37	45.34	40.63	4.60	4.35
Other Areas (9-11).....	1.25	1.38	9.52	9.90	7.68	7.19	45.50	43.06	4.33	4.26
Colored Seedless										
Indian River (39-38).....	1.35	1.37	10.29	10.77	7.70	7.93	46.88	43.22	4.83	4.66
Other Areas (9-9).....	1.27	1.32	10.09	10.63	7.98	8.08	45.88	42.25	4.62	4.49

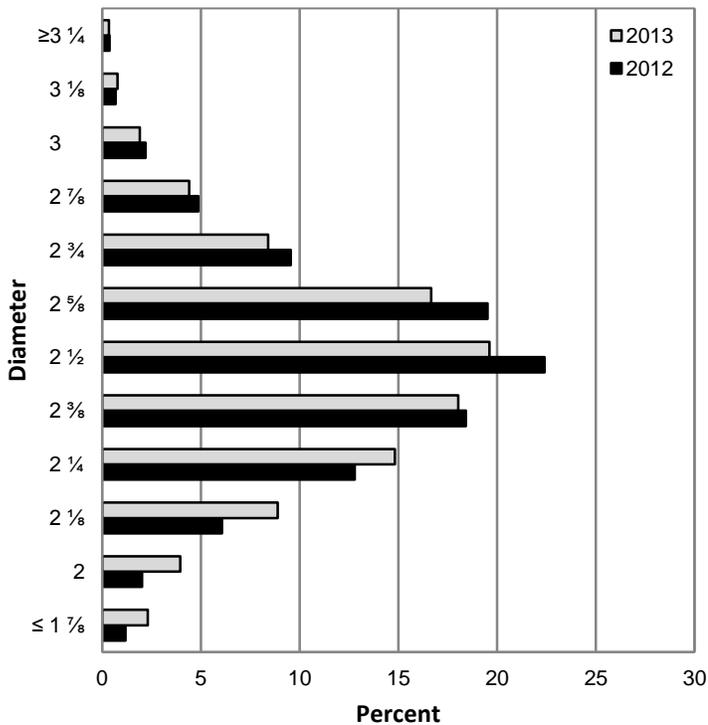
Citrus Size Frequency Measurement Distributions, by Type — Florida: November

Type and number of fruit per 4/5 – bushel containers	2011	2012	2013	Type and number of fruit per 4/5 – bushel containers	2011	2012	2013
	(percent)	(percent)	(percent)		(percent)	(percent)	(percent)
NON-VALENCIA ORANGES ¹				WHITE GRAPEFRUIT ²			
64 or less	3.5	0.7	0.7	32 or less	10.1	2.6	2.3
80	14.8	4.6	4.0	36	16.3	7.6	6.7
100	38.2	19.8	17.7	40	17.5	9.5	8.2
125	30.3	34.5	29.6	48	18.1	12.5	13.6
163 or more.....	13.2	40.4	48.0	56	11.6	11.6	10.7
NAVEL ORANGES				COLORED GRAPEFRUIT			
64 or less	49.2	43.4	34.8	32 or less	6.2	0.9	1.4
80	33.6	30.8	29.1	36	14.6	4.6	4.4
100	14.5	18.3	20.4	40	18.4	8.4	8.0
125	2.5	5.2	10.0	48	18.7	13.9	11.8
163 or more	0.2	2.3	5.7	56	13.9	13.1	12.1
VALENCIA ORANGES				HONEY TANGERINES			
64 or less	3.6	1.2	0.7	80 or less	12.1	7.7	1.8
80	19.6	7.6	5.6	100	24.7	14.0	11.3
100	38.8	26.5	20.6	120	26.6	23.5	19.9
125	27.0	35.2	31.8	176	12.7	13.3	17.1
163 or more	11.0	29.5	41.3	210 or more	23.9	41.5	49.9
TANGELOS				SUNBURST TANGERINES			
80 or less	45.2	22.9	19.6	100 or less	43.7	7.8	11.3
100	31.7	26.7	20.6	120	22.5	21.6	16.3
120	12.0	25.6	20.9	176	12.1	12.2	14.2
156 or more	11.1	24.8	38.9	210 or more	21.7	58.4	58.2

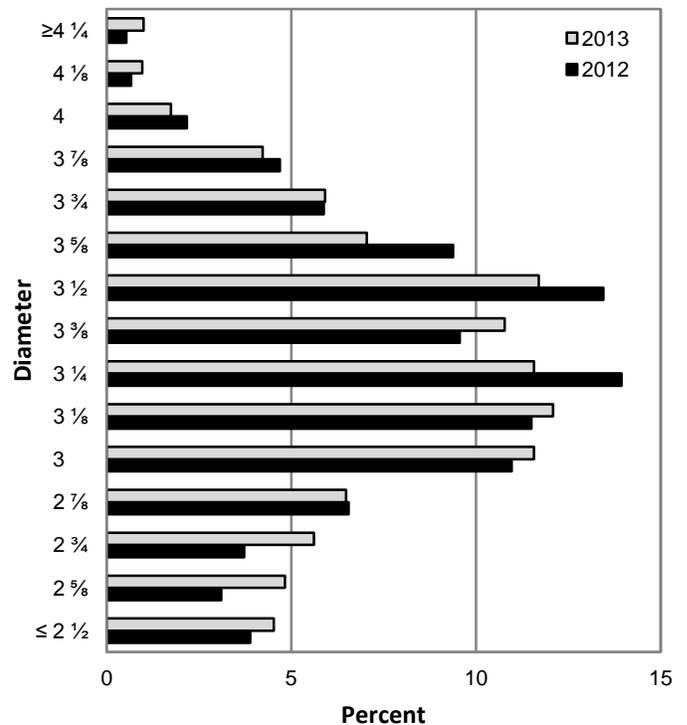
¹ Excludes Navel and Temple varieties.

² Excludes seedy.

Fruit Size Frequency Measurements, Non-Valencia Oranges¹, by Diameter - Florida: November



Fruit Size Frequency Measurements, Colored Grapefruit, by Diameter - Florida: November



¹ Excludes Navel and Temple varieties.